| Inc | lex of | Claims | • |
|-----|--------|--------|---|
|     |        |        |   |

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 10/769,900      | PAN, MENG-AN |  |
| Examiner        | Art Unit     |  |
| Quan Tra        | 2816         |  |

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

| 7 | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  | Æ |
|---|--------------|---|
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| A | Appeal   |
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| 0 | Objected |

| Cla  | aim      |          |                 |          | Date               | 9        |  |          |          | Cla  | aim            |                     |          |                         | Date                |              |  |           | C        | aim        |          |                 |          | (            | Date     | ==       |              |   | 7        |
|--|----------|----------|-----------------|----------|--------------------|----------|--|----------|----------|--|----------------|---------------------|----------|-------------------------|---------------------|--------------|--|-----------|----------|------------|----------|-----------------|----------|--------------|----------|----------|--------------|---|----------|
| _  | ल        | ŭ        |                 |          |                    |          |  |          |          | _  | - <del>c</del> |                     |          |                         |                     |              |  |           |          | <u>a</u>   |          |                 |          |              |          |          |              |   |          |
| Final  | Original | 6/28/05  |                 |          |                    |          |  |          |          | Final  | Original       |                     | İ        |                         |                     |              | 1  |           | Final    | Original   |          |                 |          |              |          |          |              | - 1   |          |
| Щ  | δ        | 136      |                 |          |                    |          |  | -        |          | <u> </u>   | ō              |                     |          | 1                       |                     |              |  |           | 证        | اق         |          |                 |          |              |          |          |              | - 1   |          |
| -  | 1        | 1        | $\vdash$        | +        | 1-1                | $\dashv$ | +  | +        | -        |  | 51             | ┞                   | +        | +-                      | H                   | -            | ╀┼   |           |          |            | <b>├</b> |                 |          |              | <u> </u> |          |              | $\dashv$  | _        |
| -  | 2        | 1        | $\vdash$        | +        | +                  | $\dashv$ | +  | +-       | -        | -  | 52             | $\vdash$            |          | +-                      | $\vdash$            | +-           | $\vdash$   |           |          | 101<br>102 | ⊢        | $\vdash$        | $\dashv$ |              | -        | Н        | $\dashv$     | $\dashv$  | 4        |
|  | 3        | 1        | $\vdash$        | ╁        | 1-1                |          | $\dashv$   | 十        | 1        |  | 53             |                     | ╅        | +-                      | $\vdash$            | +-           | +  | $\dashv$  |          | 102        | ├        | Н               |          |              | -        | $\vdash$ | -            | $\dashv$  | $\dashv$ |
|  | 4        | 1        | $\vdash$        | +        | 1-1                |          | $\dashv$   | $\dashv$ | 1        | -  | 54             | $\vdash$            | +        | +-                      |                     | +            | +  |           |          | 103        | ┢        | -               | $\dashv$ |              | _        |          | $\dashv$     | ᆉ   | $\dashv$ |
|  | 5        | 1        |                 | <u> </u> | П                  |          |  | $\top$   | 1        |  | 55             |                     | $\dashv$ | _                       |                     | <del> </del> |  |           |          | 105        | ╁╴       |                 |          |              | _        | $\dashv$ |              | $\dashv$  | $\dashv$ |
|  | 6        | 7        |                 |          |                    |          |  |          | 1        |  | 56             | П                   |          | 1                       | $\Box$              | $\top$       | $\vdash$   | -         | $\vdash$ | 106        | t        |                 |          |              | Н        | $\dashv$ |              | $\dashv$  | $\dashv$ |
|  | 7        | 7        |                 |          |                    |          |  |          | ]        |  | 57             | П                   |          |                         |                     | $\top$       | $\Box$   | 7         |          | 107        | T        |                 | $\neg$   |              |          |          |              | $\dashv$  | _        |
| لسا  | 8_       | 7        | ·               |          |                    |          |  | L        |          |  | 58             |                     |          |                         |                     |              |  |           |          | 108        |          | П               |          |              |          |          | T            | $\exists$   | П        |
|  | 9        | 1        |                 |          |                    | _        |  | $\perp$  |          |  | 59             |                     |          |                         |                     |              |  |           |          | 109        |          | П               |          |              |          |          |              | 寸   |          |
|  | 10       | 7        | L.,             | $\bot$   | $\perp$            | _        |  | _        | 4        |  | 60             |                     | $\perp$  |                         |                     |              |  |           |          | 110        |          |                 |          |              |          |          |              |   |          |
|  | 11       | 4        |                 | +        | $\vdash$           | _        | _  |          | 4        |  | 61_            |                     | _        |                         |                     |              | $\sqcup$   | _         |          | 111        | L        |                 |          |              |          |          | $_{\perp}$   | $\Box$  |          |
|  | 12       | 1        |                 | +        | $\vdash$           |          |  | -        | -        | <b> </b>   | 62             | <b>├</b>            | _        | $\bot$                  | $\vdash \downarrow$ | _            | $\sqcup$   | _         |          | 112        | L        | Ц               | [        |              |          |          | $\Box$       | $\bot$  |          |
|  | 13<br>14 | \<br>√   | $\vdash \vdash$ | +        | $\vdash \vdash$    |          | -  | +        | -        | <b> </b>   | 63             | -                   | +        | +                       | $\vdash \vdash$     | -            | $\vdash \vdash$                                  | 4         |          | 113        | <u> </u> | $\sqcup$        |          |              | Щ        |          |              | $\downarrow$  |          |
|  | 15       | 1        | -               | +        | ╁┼┤                | -        | +  | +        | -        |  | 64<br>65       | $\dashv$            | +        |                         | $\vdash$            | -            | ╁┷╁  | -         |          | 114        | <u> </u> | $\vdash$        | _        | _            | $\Box$   |          | _            | 4   | $\dashv$ |
| $\vdash$   | 16       | 1        | $\dashv$        | ╁┈       | +                  | -        | $\dashv$   | +        | -        | -  | 66             | -                   | +        |                         | $\vdash$            | -            | $\vdash$   | -         |          | 115        | _        | $\vdash$        |          |              | -        | -        | 4            | $\dashv$  | ႕        |
|  | 17       | <b>√</b> | _               | +        | $\vdash$           | $\dashv$ | +  | ┿        | ┨        | <u> </u>   | 67             | $\vdash$            | +        | +                       | $\vdash$            | +-           | H  |           |          | 116<br>117 | -        | Н               | $\dashv$ |              |          | $\dashv$ | -            | -   | ᅴ        |
|  | 18       | •        | -               | +-       | $\vdash$           | $\dashv$ | _  | +        | -        | $\vdash$   | 68             | -+                  | +        | +-                      | $\vdash$            | +            | $\vdash$   |           | <b></b>  | 118        | -        | $\vdash$        | $\dashv$ | -            | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  | $\dashv$ |
|  | 19       |          |                 | $\top$   | † †                | -        | $\dashv$   | +        | 1        | <del> </del>                                     | 69             | $\vdash$            | ╫        | +                       | ├-                  | +-           | $\vdash +$                                       | $\dashv$  |          | 119        | -        | Н               | ᅱ        | $\dashv$     | -        | -        | -            | $\dashv$  | -        |
|  | 20       |          |                 | +        | †                  |          |  | _        | 1        |  | 70             | -                   | +        | ╁                       | -                   | +-           | $\vdash$   | -         |          | 120        | -        | Н               | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  | $\dashv$ |
|  | 21       |          |                 | Т        |                    | 7        |  | 1        | 7        |  | 71             |                     | +        | +                       |                     | +            | † †  | -         |          | 121        |          |                 | -        | $\dashv$     | $\dashv$ | $\dashv$ |              | $\dashv$  | $\neg$   |
|  | 22       |          |                 |          |                    |          |  | T        |          |  | 72             |                     | +        | $\top$                  |                     | $\top$       |  | $\dashv$  |          | 122        | -        | Н               | 一        | $\dashv$     |          | -        | $\dashv$     | $\dashv$  | $\dashv$ |
|  | 23       |          |                 |          |                    | $\neg$   | T  |          | 7        |  | 73             |                     | ╅        | 1                       | $\dashv$            | _            | $\vdash$   | <b>- </b> |          | 123        | $\vdash$ | H               |          | _            |          | $\dashv$ | $\dashv$     | -   | $\dashv$ |
|  | 24       |          |                 |          |                    |          |  |          | ]        |  | 74             |                     | $\top$   | 1                       |                     | 1            |  | 7         |          | 124        | _        | Н               |          | $\neg$       |          |          | 寸            | 十   | ㅓ        |
| $\Box$   | 25       |          | $\perp$         |          | $\sqcup$           |          |  |          |          |  | 75             |                     |          |                         |                     |              |  |           |          | 125        |          |                 |          | $\neg$       |          |          | $\neg$       | 寸   | ᅱ        |
|  | 26       |          |                 | ļ.,      | $\perp \downarrow$ |          |  |          |          |  | 76             |                     |          |                         |                     |              |  |           |          | 126        |          | П               |          |              | ヿ        | 寸        | $\dashv$     | 十   | ᅦ        |
| <del>                                     </del> | 27       | _        | 4               | ↓_       | $\sqcup$           |          | _  | $\perp$  | 4        |  | _77            | $\perp \! \! \perp$ | $\perp$  | $\perp$                 |                     |              |  |           |          | 127        |          |                 |          |              |          |          |              | T   | П        |
|  | 28       |          | _               |          | +                  | _        | _  | 4        |          |  | _78            |                     |          | $\perp$                 |                     |              |  | _         |          | 128        |          |                 |          |              |          |          |              | $\Box$  |          |
|  | 29<br>30 |          | +               | ┼-       | $\vdash$           | $\dashv$ | $\dashv$   | 4        | -        |  | 79             | _                   | _        | $\perp$                 | $\perp$             |              | $\sqcup \bot$                                    | _         |          | 129        |          |                 | _        | _]           |          |          |              |   |          |
| -  | 31       | -        | +               | +        | $\vdash$           | $\dashv$ | +  | +        | -        | -  | 80             |                     | -        | -                       |                     | —            | $\vdash$   | -         |          | 130        |          |                 | _        | _            |          | $\perp$  | $\dashv$     | $\bot$  |          |
| -  | 32       |          | -               | ╁        | ╀                  | $\dashv$ | -  | +-       | -        | $\vdash$   | 81<br>82       |                     |          | +                       | -                   | +-           | -  |           |          | 131        |          | Н               | $\dashv$ | _            | _        | _        | _            | 4   | ᅬ        |
| -  | 33       | -1       | -               | +        | $\vdash$           | -+       | _  | +        | ┨        | $\vdash\vdash\vdash$                             | 83             | $-\vdash$           | ╁        | +                       | -                   | ┿            | $\vdash$   |           |          | 132        | _        | $\dashv$        | $\dashv$ | -            | -        | -        | _            | 4   | 긕        |
|  | 34       | $\dashv$ | _               | +        | $\vdash$           | $\dashv$ | +  | +        | 1        | <del>                                     </del> | 84             | +                   | +        | +                       | -                   | +-           |  | -         |          | 133<br>134 | $\vdash$ | $\vdash \vdash$ | -        | 4            |          | $\dashv$ | -            | $\dashv$  | 4        |
|  | 35       |          |                 | T        | 1                  | $\dashv$ | +  | +        | 1        |  | 85             | $\dashv$            | +        | $\forall$               | +                   | +            |  | -         |          | 135        | <u> </u> | $\vdash \vdash$ | -        | $\dashv$     | $\dashv$ |          | $\dashv$     | +   | ႕        |
|  | 36       |          | $\neg \vdash$   | $\top$   | $\sqcap$           | +        | $\dashv$   | +        | 1        |  | 86             | $\dashv$            | +        | +-                      | +                   | +            | <del>                                     </del> | -         |          | 136        | H        | $\vdash \vdash$ | -+       | $\dashv$     | $\dashv$ | $\dashv$ | +            | +   | $\dashv$ |
|  | 37       |          |                 | I        |                    | $\top$   |  |          | 1        |  | 87             | $\dashv$            | 十        | H                       | $\dashv$            | +            | <del>   </del>                                   | -         |          | 137        | $\vdash$ | $\vdash$        | $\dashv$ | -            | +        | -+       | $\dashv$     | +   | $\dashv$ |
|  | 38       |          |                 |          |                    |          |  | $\top$   | 1        |  | 88             | _                   | $\top$   | $\dagger \dagger$       | $\neg \vdash$       | 1-           |  | 7         |          | 138        | $\vdash$ | $\dashv$        | 十        | ┪            | +        | -+       | $\dashv$     | +   | $\dashv$ |
|  | 39       |          |                 |          |                    |          |  | Ι        |          |  | 89             | _†                  | T        | $\top$                  | $\dashv$            |              |  | 7111      |          | 139        | Н        | $\dashv$        | $\dashv$ | +            | $\dashv$ | -        | $\dashv$     | +   | $\dashv$ |
|  | 40       |          |                 |          |                    |          | $oldsymbol{ol}}}}}}}}}}}}}}$ |          |          |  | 90             |                     | $\top$   |                         |                     |              |  |           |          | 140        |          |                 | 寸        | $\dashv$     | 7        | $\dashv$ | $\dashv$     | +   | ᅱ        |
|  | 41       | _        |                 | $\perp$  |                    |          |  |          | <b>.</b> |  | 91             | $oldsymbol{\perp}$  | I        |                         |                     |              |  |           |          | 141        |          | $\neg$          | 7        | $\exists$    | $\dashv$ | $\dashv$ | 7            | 十   | ㅓ        |
|  | 42       | _        |                 | _        |                    | 4        | _  | $\perp$  |          | $oxed{oxed}$                                     | 92             | $\perp$             | L.       |                         | $\Box$              |              |  |           |          | 142        |          |                 | $\Box$   |              | _        |          | $\neg$       | 丁   | ٦        |
|  | 43       | -        | -               | ₩        | $\vdash \vdash$    | $\perp$  | 4  | _        |          |  | 93             | $\perp$             | _        | $\bot \downarrow$       | _ _                 |              | $\Box \Box$                                      | _         |          | 143        |          | $_{\perp}$      | $\Box$   |              |          | $\Box$   | J            | $oldsymbol{ol}}}}}}}}}}}}}} $ | ╛        |
| $\dashv$   | 44<br>45 | -        | -               | +-       | $\vdash$           | -        | +  | +-       | <b>.</b> |  | 94             |                     | 4        | $\downarrow \downarrow$ | $\perp$             | ╀-           | $\sqcup \bot$                                    | _         |          | 144        |          | _[              |          | Ţ            | $\Box$   | $\Box$   | $oxed{\bot}$ | $\perp$   |          |
| $\dashv$   | 46       | -        | +               | ╁        | $\vdash \vdash$    | +        | -  | +        |          | $\sqcup \sqcup$                                  | 95             | _                   | _        | $\downarrow \downarrow$ | -                   | 4-           | ⊢.   | 4         |          | 145        |          | _[              | _[       | $\Box$       | $\bot$   | $\Box$   | $\perp$      | $oldsymbol{\perp}$  | _]       |
| <del>- +</del>                                   | 47       | +        | +               | +        | $\vdash \vdash$    | $\dashv$ | _  | +        | <b> </b> | $\vdash$ $\dashv$                                | 96             | +                   | +        | $\dashv$                |                     | +            | $\vdash \vdash$                                  | 4         |          | 146        |          | _               | 4        | $\downarrow$ | $\perp$  | _        |              | $\perp$   | ⅃        |
| -+   | 48       | +        | +               | 1        | $\vdash \vdash$    | +        | +  | +-       | <b> </b> | $\vdash \dashv$                                  | 97<br>98       | +                   | +        | $\vdash$                | -+                  | +            |  | -         |          | 147        | _        | _               | 4        | 4            | _        | $\dashv$ | _            | $\bot$  | ╝        |
| _  | 49       | +        | +               | $\vdash$ | <del>   </del>     | +        | +  | +-       |          | $\vdash$   | 99             | -                   | +        | $\dashv$                |                     | +            |  | -         |          | 148        | _        | $\dashv$        | $\dashv$ | 4            |          | -        | $\bot$       | +   | 4        |
|  | 50       | 7        | +               | $\vdash$ | $\vdash$           | +        | +  | +-       |          | $\vdash$   | 100            | +                   | +-       | ╁┤                      | $\dashv$            | +            | $\vdash$   | -         |          | 149        | -        | $\dashv$        | -        | +            | $\dashv$ | -        | $\dashv$     | 4   | $\dashv$ |
|  | 30       |          |                 |          |                    |          |  |          | J:::::   | ــــــــــــــــــــــــــــــــــــــ           | 100            |                     | L        | 1. 1                    |                     | 1            |  | _];;;;[   |          | 150        |          | - 1             | - 1      | - 1          | - 1      | - 1      |              |   | - 1      |